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Statement of Work

Earned value Management (EVMS) Scheduling and Cost Management Support for the Low Impact Docking System (LIDS) Project at JSC

March 14, 2007

Background

ESMD is currently implementing Earned Value Management as a process requirement to help meet the challenges of managing complex space flight systems. The EVM task fits within the context of the overall program management process. The PM must understand and recognize the value and criticality of identifying, reporting, and managing program cost, schedule and scope using EVM. Capitalizing on the relationship between the programmatic processes, tools and practice is critical to the success of programs. The key to success is to establish an effective performance management practice.

Earned Value Management is a program management technique that integrates technical performance requirements, resource planning, with schedules, while taking risk into consideration. The major objectives of applying earned value to a project are to encourage project managers to use effective internal technical, cost and schedule management control systems, and to permit the customer to rely on timely data produced by those systems for better management insight. This data is in turn used for determining product-oriented project status, and projecting future performance based on trends to date. In addition, EVM allows better and more effective management decision making to minimize adverse impacts to the project.

Specific Requirements

The contractor shall provide support for the scheduling and EVM implementation on the Low Impact Docking System (LIDS) project at JSC. Specifically this statement of work will provide for implementation planning support within the LIDS Project at Johnson Space Center. The LIDS project office is located at Johnson Space Center and will be responsible for directing the overall EVM and scheduling implementation. Support under this task will include the development of processes and procedures in concert with the project management tools selected by LIDS. This support shall be in accordance with ANSI 748 standards, NASA NPD 7120.5C, and ESMD specific high-level developed processes developed and approved by the Office of the Chief Engineer. The Contractor shall include the following items in the performance of this support:

- (1) Contractor shall provide expert support in the implementation of logic based scheduling processes to be integrated into the Earned Value Management System process. This will include on-site training in scheduling and EVM management techniques. This work shall be integrated into the Earned Value Management monthly reports to Orion and CxP management.
- (2) The contractor shall support the LIDS integration of the Scheduling process tool implementation to the Cost Management Earned Value Management tool to provide a total picture of Cost, Schedule and Performance information for the Project Managers and Resource Managers throughout the Constellation Program.

- (3) The contractor shall develop and implement a feedback process to help build out of the core Scheduling and Earned Value Management processes being developed by the CxP Program office and Agency OCE.
- (4) Contractor shall work with the LIDS project management leadership to implement planning, transition and feedback on EVM process to insure a continuous improvement culture takes hold across entire LIDS technical team.
- (5) The contractor shall participate in the integration of EVM information into the Orion risk management office to ensure integration of technical performance with cost, resources and schedule performance as a requirement of the risk management process.

Travel

Travel will be required to support the configuration and development of processes and procedures for the LIDS schedule and EVM system

Period of Performance

The period of performance for this effort is task order issuance through July 31, 2007.

Deliverables

Final Report and deliveries shall be submitted no later than July 31, 2007. Monthly intermittent reports will be delivered to the COTR no later than 10 days after the end of each month.

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NAME OF OFFEROR OR CONTRACTOR GOLDBELT RAVEN LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)		(D)	(E)	(F)
	All other terms and conditions remain unchanged.		П		
	The sense terms and conditions remain unchanged.				
002	Additional services in support of LIDS at the				168,871.00
	Johnson Space Center in accordance with the				100,071.00
	attached statement of work dated November 27,				
	2007.				
	The period of performance for the additional work				_
	is December 17, 2007 through April 30, 2008.				
	Incremental funding is added in the amount of				
	\$150,000.				
	It is contemplated that these funds presently				
	allotted will cover the work to be performed				
	until April 15, 2008. Incrementally Funded Amount: \$150,000.00				
	Therementally runded Amount. \$150,000.00				
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Statement of Work

Earned value Management (EVMS) Scheduling and Cost Management Support for the Low Impact Docking System (LIDS) Project at JSC

Revised 11/27/07

1.0 Introduction/Background

ESMD is currently implementing Earned Value Management as a process requirement to help meet the challenges of managing complex space flight systems. The EVM task fits within the context of the overall program management process. The PM must understand and recognize the value and criticality of identifying, reporting, and managing program cost, schedule and scope using EVM. Capitalizing on the relationship between the programmatic processes, tools and practice is critical to the success of programs. The key to success is to establish an effective performance management practice.

Earned Value Management is a program management technique that integrates technical performance requirements, resource planning, with schedules, while taking risk into consideration. The major objectives of applying earned value to a project are to encourage project managers to use effective internal technical, cost and schedule management control systems, and to permit the customer to rely on timely data produced by those systems for better management insight. This data is in turn used for determining product-oriented project status, and projecting future performance based on trends to date. In addition, EVM allows better and more effective management decision making to minimize adverse impacts to the project. Additionally, the Office of The Chief Engineer (OCE) is utilizing the LIDS Project as a pilot activity for successful implementation of an EVM solution as prescribed in NPR 7120.5D

2.0 Specific Requirements

The contractor shall provide support for the scheduling and EVM implementation on the Low Impact Docking System (LIDS) project at JSC. Specifically this statement of work will provide for implementation planning support within the LIDS Project at Johnson Space Center. The LIDS project office is located at Johnson Space Center and will be responsible for directing the overall EVM and scheduling implementation. Support under this task will include the development of processes and procedures in concert with the project management tools selected by LIDS. This support shall be in accordance with ANSI 748 standards, NASA NPD 7120.5C, and ESMD specific high-level developed processes developed and approved by OCE. The Contractor shall include the following items in the performance of this support:

- 2.1 Contractor shall provide expert support in the implementation of logic based scheduling processes to be integrated into the Earned Value Management System process. This will include on-site training in scheduling and EVM management techniques. This work shall be integrated into the Earned Value Management monthly reports to OCE, Orion and CxP management.
- 2.2 The contractor shall support the LIDS integration of the Scheduling process tool implementation to the Cost Management Earned Value Management tool to provide a total picture of Cost, Schedule and Performance information for the Project Managers and Resource Managers throughout the Constellation Program.

- 2.3 The contractor shall develop and implement a feedback process to help build out of the core Scheduling and Earned Value Management processes being developed by the CxP Program office and Agency OCE.
- 2.4 Contractor shall work with the LIDS project management leadership to implement planning, transition and feedback on EVM process to insure a continuous improvement culture takes hold across entire LIDS technical team.
- 2.5 The contractor shall participate in the integration of EVM information into the Orion risk management office to ensure integration of technical performance with cost, resources and schedule performance as a requirement of the risk management process.
- 2.6 Contractor shall support Proof of Concept project for EVM application and process integration, including NPR 7120.5D Appendix F workflow and process development documentation.
- 2.7 Contractor shall support LIDS Project Server development and expansion; support GFE projects CPAS, ATLAS and LIDS using Microsoft Project Server 2007, SharePoint and SQL 2005; server configuration management and Identity and Access Management (IAM) rules management.
- 2.8 Contractor shall support LIDS schedule development; defining standard schedule structure and data element requirements; project schedule baseline management and oversight.
- 2.9 Contractor shall support Engineering Directorate EA Microsoft Project Server 2007 implementation support and senior consultant / advisor; configuration and integration design and deployment management support.
- 2.10 Contractor shall support GFE Project Managers; including LIDS, other EA team interface requirements (support the EA3 PMO as required), ESCG (contractor) interface and resource reviews and assessments (project schedulers and budget analysts, for example), and other technical solutions as required to support the Engineering Directorate with project management and EVM subject matter expertise.

Travel

Travel will be required to support the configuration and development of processes and procedures for the LIDS schedule and EVM system.

<u>Deliverables</u>

Final Report and deliveries shall be submitted no later than April 30, 2008. Monthly intermittent reports will be delivered to the COTR no later than 10 days after the end of each month.

Period of Performance

The period of performance shall be from task issuance through April 30, 2008. The period of performance will not be extended.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAG	PAGE OF PAGES		
2. AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REC	QUISITION/PURCHASE REQ. NO.	5. PROJE	T NO. (If app	2 licable)	
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NAME OF OFFEROR OR CONTRACTOR
GOLDBELT RAVEN LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	the Langley Financial Management Office, will				
	transition to the NASA Shared Services Center				
	(NSSC). Therefore, invoices/vouchers issued				
	after March 1, 2008 should be submitted to the		-		
	following new location:				
	NASA Shared Services Center (NSSC)				
	Financial Management Division (FMD) - Accounts				
	Payable				
	Bldg 1111, C. Road				
	Stennis Space Center, MS 39529	1			
	Email: NSSC-AccountsPayable@nasa.gov				
	Fax: 866-209-5415				
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	Electronic submissions of vouchers/invoices via				
	email is preferred but not required over physical				
	mailing,				
	All other terms and conditions remain unchanged.				
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AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF	PAGES	
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NASA/Langley Research Center 9B Langley Blvd., Bldg. 1195 M/S 126 Hampton VA 23681-2199	NASA/Langley Research Center 9B Langley Blvd., Bldg. 1195B M/S 126 Hampton VA 23681-2199						
8. NAME AND ADDRESS OF CONTRACTOR (No., street GOLDBELT RAVEN LLC Attn: Rob Robbins 14150 NEWBROOK DR CHANTILLY VA 20151-2274 CODE The above numbered solicitation is amended as set for Offers must acknowledge receipt of this amendment p Items 8 and 15, and returning cop separate letter or telegram which includes a reference	FACILITY CODE 11. THIS ITEM ONLY APPLIES rth in Item 14. The hour and date sprior to the hour and date specified in the spec	X 10/N1 NN NN 10E O TO AMENDM pecified for real the solicitation will be of the solicitation of the solicitation of the solicitation will be of the solicitation of the solicitation of the solicitation will be of the solicitation of the solicitati	ceipt of Offers	ended, ethods: (a offer subm	nitted; or (c)	eting By	
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14. DESCRIPTION OF AMENDMENT/MODIFICATION of The purpose of this modification obligated Amount for Contractobligated amount of \$170,346 CLIN 002 Incrementally Funder	Organized by UCF section heading tion is to increas Line Item Number 50 for CLIN 002.	s, including s ed the (CLIN)	oficitation/contract subject matter where feas	sible.)	otal		
The new total obligated amoun obligated amount of \$290,224 All other terms and condition	25.		reased by \$18,871.00 fo	or a	new to	otal	
Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print) 15B. CONTRACTOR/OF FEROR (Signature of person authorized to sign)	e document referenced in Item 9A or	6 Fra	etofore changed, remains unchanged and in NAME AND TITLE OF CONTRACTING OFF IN RISINGER UNITED STATES OF AMERICA (Signature of Contracting Officer)	Programme payment	pe or print)	C. DATE SIGNED	

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

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